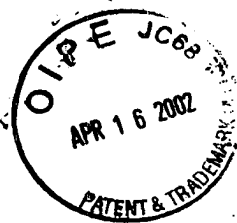


2878



PATENT APPLICATION  
SERIAL NO. 09/992,538  
ATTORNEY DOCKET NO. 116-011843

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit 2878 :  
In re application of :  
KUNIAKI NAGAYAMA : METHOD OF DETERMINING BASE  
SEQUENCE OF DNA OR RNA AND DNA  
Serial No. 09/992,538 : SEQUENCER  
Filed November 19, 2001 :  
Pittsburgh, Pennsylvania  
April 9, 2002

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Filed herewith and identified on FORM PTO-1449 are five publications referred to in the specification.

Note that US 2002/0011566 corresponds to JP 2000-85493 referred to on page 9 of the specification.

JP11-258057 (in Japanese) with the abstract in English: The patent is concerned with a microscope including light microscope, electron microscope, etc., and discloses a method and device in which a complex image is obtained by detecting a real number component image of a specimen and an imaginary number component image produced by using a  $\pi/2$  phase plate for shifting the phase and then taking the complex sum of these two kinds of image.

Yoshimasa KYOGOKU: "The Field of Chemistry" (in Japanese), Vol. 22, No. 4, pp. 364-374, 1968: "A Study of Specific Pair Bonding of Nucleic Acid Bases by Ultra-Red"

I hereby certify that this corresponding is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner for Patents, Washington, D.C. 20231 on April 9, 2002.

Lori A. Fratangelo  
(Name of Person Mailing Paper)  
  
Signature Date 4/9/02

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Spectroscopy" (in Japanese). KYOGOKU examines the specificity of pair bonding of nucleic acid bases by using an ultra-red spectrometer, that is, it shows that the pair bonds of A-T(U) and G-C appear but the other pair bonds do not appear, and he reports that it is so strict that it could not be disturbed, even if the substitution base is replaced with another.

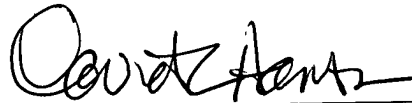
A completed FORM PTO-1449 is attached.

The Commissioner is hereby authorized to charge any additional fees as set forth in 37 CFR 1.16 and 1.17 which may be required to Deposit Account No. 23-0650. Please refund any overpayment to Deposit Account No. 23-0650. The original and two copies of this Information Disclosure Statement are enclosed.

Respectfully submitted,

WEBB ZIESENHEIM LOGSDON  
ORKIN & HANSON, P.C.

By



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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
116-011843SERIAL NO.  
09/992,538INFORMATION DISCLOSURE STATEMENT  
STATEMENT BY APPLICANT

APPLICANT(S)

Kuniaki NAGAYAMA

FILING DATE  
November 19, 2001GROUP ART UNIT  
2878

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINE RINITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	2002	00	1	1	5	6	6	Published 1/31/2002	Nagayama et al.	250	311	March 27, 2001
	AB												
	AC												
	AD												
	AE												
	AF												
	AG												
	AH												
	AI												
	AJ												
	AK												

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	AL	11	2	5	8	0	5	7	9/24/1999	Japan			Abstract	
	AM													
	AN													
	AO													
	AP													

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AQ	✓	"Base Sequence Determination in Nucleic Acids With the Electron Microscope, III. Chemistry and Microscopy of Guanine-Labeled DNA", Evangelos N. Moudrianakis and Michael Beer, <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 53, pp. 564-571 (1965).
	AR	✓	"Visualization of DNA by Scanning Probe Microscopy" (in Japanese), Hiroyuki TANAKA et al., <i>Biological Physics</i> , Vol. 40, No. 5, pp. 336-340, (2000).
	AS	✓	"A Study of Specific Pair Bonding of Nucleic Acid Bases by Ultra-Red Spectroscopy" (in Japanese), Yoshimasa KYOGOKU, <i>The Field of Chemistry</i> , Vol. 22, No. 4, pp. 364-374 (1968).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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